# antibodies -online.com





# SLC4A11 Protein (AA 1-375) (His tag)



## Overview

Quantity:	1 mg
Target:	SLC4A11
Protein Characteristics:	AA 1-375
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SLC4A11 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

### **Product Details**

## Sequence:

MSQVGGRGDR CTQEVQGLVH GAGDLSASLA ENSPTMSQNG YFEDSSYYKC DTDDTFEARE EILGDEAFDT ANSSIVSGES IRFFVNVNLE MQATNTENEA TSGGCVLLHT SRKYLKLKNF KEEIRAHRDL DGFLAQASIV LNETATSLDN VLRTMLRRFA RDPDNNEPNC NLDLLMAMLF TDAGAPMRGK VHLLSDTIQG VTATVTGVRY QQSWLCIICT MKALQKRHVC ISRLVRPQNW GENSCEVRFV ILVLAPPKMK STKTAMEVAR TFATMFSDIA FRQKLLETRT EEEFKEALVH QRQLLTMVSH GPVAPRTKER STVSLPAHRH PEPPKCKDFV PFGKGIREDI ARRFPLYPLD FTDGIIGKNK AVGKY

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

#### Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Human SLC4A11 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.

• State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

## Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 µm filtered	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	

## **Target Details**

Target:	SLC4A11
Alternative Name:	SLC4A11 (SLC4A11 Products)

## Target Details

3		
Background:	Transporter which plays an important role in sodium-mediated fluid transport in different	
	organs. Prevents severe morphological changes of the cornea caused by increased sodium	
	chloride concentrations in the stroma. In the inner ear, is involved in transport of potassium	
	through the fibrocyte layer to the stria vascularis and is essential for the generation of the	
	endocochlear potential but not for regulation of potassium concentrations in the endolymph. In	
	the kidney, is essential for urinary concentration, mediates a sodium flux into the thin	
	descending limb of Henle loop to allow countercurrent multiplication by osmotic equilibration	
	(By similarity). Involved in borate homeostasis. In the absence of borate, it functions as a Na(+)	
	and OH(-)(H(+)) channel. In the presence of borate functions as an electrogenic Na(+) coupled	
	borate cotransporter. {ECO:0000250 UniProtKB:A2AJN7, ECO:0000269 PubMed:15525507,	
	ECO:0000269 PubMed:25007886}.	
Molecular Weight:	43.0 kDa Including tag.	
UniProt:	Q8NBS3	
Pathways:	Proton Transport	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies	
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee	
	though.	
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be	
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to	
	increase solubility. We will discuss all possible options with you in detail to assure that you	
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

$\vdash$	land	linc
	iaria	11116

Expiry Date:

Unlimited (if stored properly)